

**In the Claims:**

Please amend the claims as follows:

**Please cancel claims 2-8 and 18-20, without prejudice or disclaimer.**

**Please add new claims 21-124, as follows:**

21. (New) An isolated antibody or portion thereof that specifically binds to a protein selected from the group consisting of:

- (a) a protein whose sequence consists of amino acid residues 2 to 158 of SEQ ID NO:2;
- (b) a protein whose sequence consists of an immunogenic fragment of the amino acid sequence of SEQ ID NO:2;
- (c) a protein consisting of a fragment of SEQ ID NO:2, wherein said fragment comprises at least 30 contiguous amino acid residues of SEQ ID NO:2; and
- (d) a protein consisting of a fragment of SEQ ID NO:2, wherein said fragment comprises at least 50 contiguous amino acid residues of SEQ ID NO:2.

22. (New) The antibody or portion thereof of claim 21 that specifically binds protein

(a).

23. (New) The antibody or portion thereof of claim 21 that specifically binds protein

(b).

24. (New) The antibody or portion thereof of claim 21 that specifically binds protein

(c).

25. (New) The antibody or portion thereof of claim 21 that specifically binds protein  
(d).

26. (New) The antibody or portion thereof of claim 21 wherein said protein specifically bound by said antibody or portion thereof is glycosylated.

27. (New) The antibody or portion thereof of claim 21 which is a monoclonal antibody.

28. (New) The antibody or portion thereof of claim 21 which is a polyclonal antibody.

29. (New) The antibody or portion thereof of claim 21 which is a chimeric antibody.

30. (New) The antibody or portion thereof of claim 21 which is a humanized antibody.

31. (New) The antibody or portion thereof of claim 21 which is a human antibody.

32. (New) The antibody or portion thereof of claim 21 which is a single chain antibody.

33. (New) The antibody or portion thereof of claim 21 which is a Fab fragment.

34. (New) The antibody or portion thereof of claim 21 which is labeled.

35. (New) An isolated cell that produces the antibody of claim 21.

36. (New) A hybridoma that produces the antibody of claim 21.

37. (New) A hybridoma that produces the antibody of claim 27.

38. (New) A method of detecting a colon specific protein in a biological sample

comprising:

(a) contacting the biological sample with the antibody or portion thereof of claim

21; and

(b) detecting the colon specific protein in the biological sample.

39. (New) The method of claim 38 wherein the antibody is a monoclonal antibody.

40. (New) The method of claim 38 wherein the antibody is a polyclonal antibody.

41. (New) The method of claim 38 wherein the antibody is a chimeric antibody.

42. (New) The method of claim 38 wherein the antibody is a humanized antibody.

43. (New) The method of claim 38 wherein the antibody is a human antibody.

44. (New) The method of claim 38 wherein the antibody is a single chain antibody.

45. (New) The method of claim 38 wherein the antibody is a labeled antibody.

46. (New) An isolated antibody or portion thereof produced by immunizing an animal with a protein selected from the group consisting of:

(a) a protein whose sequence comprises amino acid residues 2 to 158 of SEQ ID

NO:2;

(b) a protein whose sequence comprises an immunogenic fragment of the amino acid sequence of SEQ ID NO:2

(c) a protein whose sequence comprises at least 30 contiguous amino acid residues of SEQ ID NO:2; and

(d) a protein whose sequence comprises at least 50 contiguous amino acid residues of SEQ ID NO:2,

wherein said antibody or portion thereof specifically binds to the amino acid sequence of SEQ ID NO:2.

47. (New) The antibody or portion thereof of claim 46 produced by immunizing an animal with protein (a).

48. (New) The antibody or portion thereof of claim 46 produced by immunizing an animal with protein (b).

49. (New) The antibody or portion thereof of claim 46 produced by immunizing an animal with protein (c).

50. (New) The antibody or portion thereof of claim 46 produced by immunizing an animal with protein (d).

51. (New) An isolated antibody or portion thereof that specifically binds to a protein whose sequence consists of amino acid residues 1 to 158 of SEQ ID NO:2.

52. (New) The antibody or portion thereof of claim 51 wherein said protein specifically bound by said antibody or portion thereof is glycosylated.

53. (New) The antibody or portion thereof of claim 51 which is a monoclonal antibody.

54. (New) The antibody or portion thereof of claim 51 which is a polyclonal antibody.

55. (New) The antibody or portion thereof of claim 51 which is a chimeric antibody.

56. (New) The antibody or portion thereof of claim 51 which is a humanized antibody.

57. (New) The antibody or portion thereof of claim 51 which is a human antibody.

58. (New) The antibody or portion thereof of claim 51 which is a single chain antibody.

59. (New) The antibody or portion thereof of claim 51 which is a Fab fragment.

60. (New) The antibody or portion thereof of claim 51 which is labeled.

61. (New) An isolated cell that produces the antibody of claim 51.

62. (New) A hybridoma that produces the antibody of claim 51.

63. (New) A hybridoma that produces the antibody of claim 53.

64. (New) A method of detecting a colon specific protein in a biological sample

comprising:

(a) contacting the biological sample with the antibody or portion thereof of claim

51; and

(b) detecting the colon specific protein in the biological sample.

65. (New) The method of claim 64 wherein the antibody is a monoclonal antibody.

66. (New) The method of claim 64 wherein the antibody is a polyclonal antibody.

67. (New) The method of claim 64 wherein the antibody is a chimeric antibody.

68. (New) The method of claim 64 wherein the antibody is a humanized antibody.

69. (New) The method of claim 64 wherein the antibody is a human antibody.

70. (New) The method of claim 64 wherein the antibody is a single chain antibody.

71. (New) The method of claim 64 wherein the antibody is a labeled antibody.

72. (New) An isolated antibody or portion thereof produced by immunizing an animal with a protein whose sequence comprises amino acid residues 1 to 158 of SEQ ID NO:2 wherein said antibody or portion thereof specifically binds to the protein of SEQ ID NO:2.

73. (New) An isolated antibody or portion thereof that specifically binds to a protein selected from the group consisting of:

(a) a protein whose sequence consists of the amino acid sequence of the mature polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129;

(b) a protein whose sequence consists of an immunogenic fragment of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129;

(c) a protein consisting of a fragment of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129, wherein said fragment comprises at least 30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129; and

(d) a protein consisting of a fragment of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129, wherein said fragment comprises at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129.

74. (New) The antibody or portion thereof of claim 73 that specifically binds protein
- (a).
75. (New) The antibody or portion thereof of claim 73 that specifically binds protein
- (b).
76. (New) The antibody or portion thereof of claim 73 that specifically binds protein
- (c).
77. (New) The antibody or portion thereof of claim 73 that specifically binds protein
- (d).
78. (New) The antibody or portion thereof of claim 73 wherein said protein specifically bound by said antibody or portion thereof is glycosylated.
79. (New) The antibody or portion thereof of claim 73 which is a monoclonal antibody.
80. (New) The antibody or portion thereof of claim 73 which is a polyclonal antibody.
81. (New) The antibody or portion thereof of claim 73 which is a chimeric antibody.
82. (New) The antibody or portion thereof of claim 73 which is a humanized antibody.



83. (New) The antibody or portion thereof of claim 73 which is a human antibody.
84. (New) The antibody or portion thereof of claim 73 which is a single chain antibody.
85. (New) The antibody or portion thereof of claim 73 which is a Fab fragment.
86. (New) The antibody or portion thereof of claim 73 which is labeled.
87. (New) An isolated cell that produces the antibody of claim 73.
88. (New) A hybridoma that produces the antibody of claim 73.
89. (New) A hybridoma that produces the antibody of claim 79.
90. (New) A method of detecting a colon specific protein in a biological sample comprising:
- (a) contacting the biological sample with the antibody or portion thereof of claim 73; and
  - (b) detecting the colon specific protein in the biological sample.
91. (New) The method of claim 90 wherein the antibody is a monoclonal antibody.
92. (New) The method of claim 90 wherein the antibody is a polyclonal antibody.

93. (New) The method of claim 90 wherein the antibody is a chimeric antibody.

94. (New) The method of claim 90 wherein the antibody is a humanized antibody.

95. (New) The method of claim 90 wherein the antibody is a human antibody.

96. (New) The method of claim 90 wherein the antibody is a single chain antibody.

97. (New) The method of claim 90 wherein the antibody is a labeled antibody.

98. (New) An isolated antibody or portion thereof produced by immunizing an animal with a protein selected from the group consisting of:

(a) a protein whose sequence comprises the amino acid sequence of the mature polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129;

(b) a protein whose sequence comprises an immunogenic fragment of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129;

(c) a protein whose sequence comprises at least 30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129;

and

(d) a protein whose sequence comprises at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129;

wherein said antibody or portion thereof specifically binds to the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129.

99. (New) The antibody or portion thereof of claim 97 produced by immunizing an animal with protein (a).

100. (New) The antibody or portion thereof of claim 97 produced by immunizing an animal with protein (b).

101. (New) The antibody or portion thereof of claim 97 produced by immunizing an animal with protein (c).

102. (New) The antibody or portion thereof of claim 97 produced by immunizing an animal with protein (d).

103. (New) An isolated antibody or portion thereof that specifically binds to a protein whose sequence consists of the amino acid sequence of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129.

104. (New) The antibody or portion thereof of claim 103 wherein said protein specifically bound by said antibody or portion thereof is glycosylated.

105. (New) The antibody or portion thereof of claim 103 which is a monoclonal antibody.

106. (New) The antibody or portion thereof of claim 103 which is a polyclonal antibody.

107. (New) The antibody or portion thereof of claim 103 which is a chimeric antibody.

108. (New) The antibody or portion thereof of claim 103 which is a humanized antibody.

109. (New) The antibody or portion thereof of claim 103 which is a human antibody.

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110. (New) The antibody or portion thereof of claim 103 which is a single chain antibody.

111. (New) The antibody or portion thereof of claim 103 which is a Fab fragment.

112. (New) The antibody or portion thereof of claim 103 which is labeled.

113. (New) An isolated cell that produces the antibody of claim 103.

114. (New) A hybridoma that produces the antibody of claim 103.

115. (New) A hybridoma that produces the antibody of claim 105.

116. (New) A method of detecting a colon specific protein in a biological sample comprising:

(a) contacting the biological sample with the antibody or portion thereof of claim 103; and

(b) detecting the colon specific protein in the biological sample.

117. (New) The method of claim 116 wherein the antibody is a monoclonal antibody.

118. (New) The method of claim 116 wherein the antibody is a polyclonal antibody.

119. (New) The method of claim 116 wherein the antibody is a chimeric antibody.

120. (New) The method of claim 116 wherein the antibody is a humanized antibody.

121. (New) The method of claim 116 wherein the antibody is a human antibody.

122. (New) The method of claim 116 wherein the antibody is a single chain antibody.

123. (New) The method of claim 116 wherein the antibody is a labeled antibody.

124. (New) An isolated antibody or portion thereof produced by immunizing an animal with a protein whose sequence consists of the amino acid sequence of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129, wherein said antibody or portion thereof specifically binds to the polypeptide encoded by the cDNA contained in ATCC Deposit Number 97129.

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